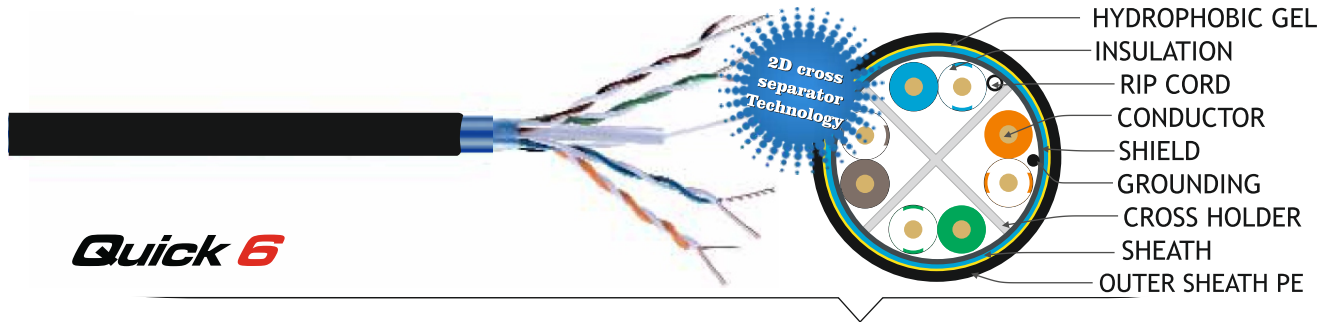


Structural Cabling System Fibrain Data  
**Category 6 cabling**  
 F/UTP LSZH+PE coating

01



**Quick 6**

**OUTDOOR Cable 350 MHz LSZH+PE sheath wet core**  
 F/UTP Category 6

FIBRAIN DATA Structural Cabling Quick Series, fully satisfies the requirements of cat. 6 (class E) in accordance with standard ISO/IEC 11801 2nd edition. Also all components of the transmission line complete ROHS 2002/95/WE Directive.

Electrical and constructional parameters:		
Parameter:		
Resistance (max) Ohm/100m (328 ft) @ 20 °C	8,90	
Capacity (max) nF/100m (328ft) @ 1 kHz	5,60	
Nominal velocity of propagation NVP (% speed of light)	70	
Impedance (Ohm)	(min-max)	
Value for:	1,0 - 100 MHz	85-115
	100 - 350 MHz	78-122
	350 - 500 MHz	68-132
Coefficient of delay (max) (ns @ 10 MHz)	518	
Delay skew (max) (ns/100 m)	35	
Diameter (mm)	9	
Weigh(kg/km)	61,3	
Minimal bending radius (mm)	36	

**Construction:**

- Conductor - 23 AWG (0,574 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Internal jacket - Blue LSZH material according to norm IEC 60332-1
- External jacket - Black PE
- Shield: aluminum foil/ polyester around all pairs
- Grounding: cooper, galvanized drainage wire  $\phi$  0,4 mm
- Hydrophobic gel under the outer sheath

**Application:**

- Supports full and half duplex application
- Digital and analogue video transmission
- 16 Mbps Token Ring
- 100 Mbps TP-PMOD
- 100 BASE -T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM

**Norms:**

- LSZH: EN 61034, EN 50267-2-1
- EN 60332-1, EN 60332-3-24
- ANSI/TIA/EIA 568-C.2 (Cat. 6)
- ISO/IEC 11801, EN 50173

**Cable marking:**

Below information is printed on each meter of the cable:

- **Supplier:** FIBRAIN DATA
- **Cable Type:** F/UTP 4PR 23AWG CAT.6 350 MHz
- **Jacket type:** LSZH+PE
- **Norms:** IEC 61156-5 ISO/IEC 11801 EN 50173
- **Year of production:** XXXX
- **ID number:** XXXX
- **Length marking in meters**



Frequency MHz:	Attenuation Max dB/100 m:	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return Loss
				dB/100 m(min):		
1	2,1	75,3	72,3	68,0	65,0	20,0
10	6,0	60,3	57,3	48,0	45,0	25,0
16	7,6	57,2	54,2	43,9	40,9	25,0
31,25	10,7	52,9	49,9	38,1	35,1	23,6
62,5	15,5	48,4	45,4	32,1	29,1	21,5
100	19,9	45,3	42,3	28,0	25,0	20,1
155	25,3	42,4	39,4	24,2	21,2	18,8
200	29,1	40,8	37,8	22,0	19,0	18,0
250	33,0	39,3	36,3	20,0	17,0	17,3

**XQ 100.166 FIBRAIN DATA Quick F/UTP Cat. 6 350 MHz drum 500 m outdoor jacket LSZH+PE black colour**

**XQ 100.167 drum 1000 m**